

MSU 4.1-588  
Appl. No. 10/659,577  
Amdt. dated December 11, 2006  
Reply to Office Action of September 11, 2006

**AMENDMENTS TO THE ABSTRACT:**

1. Please replace the Abstract on page 38 with the following paragraph:

Graphite nanoplatelets ~~of expanded graphite~~ and composites and products produced therefrom are described. ~~The preferred method of expanding the~~ The graphite is expanded by microwaves or other radiofrequency wave treatment of intercalated graphite for five minutes or less. The expanded graphite is ~~preferably~~ then crushed to mostly 1  $\mu$ m or less ~~nanometer (substantially all 200 microns or less)~~. The ~~expanded graphite~~ graphite nanoplatelets ~~are~~ is used in polymer composites. ~~The expanded graphite is particularly useful for batteries, anodes and fuel cells.~~